\square **41** \square \square

$$1 = \sin x - \ln(1+x) = f(x) = \sin x - \ln(1+x)$$

$$200000 f(x) = lnx - x + 2sin x_{0000}$$

$$300000 f(x) = \sin x - e^{x^2} 0000$$

$$f(x) = \cos x + \frac{1}{4}x^2 - 1$$

$$0 \quad 0 \quad f(x), \quad 0 \quad X \in [-\frac{\pi}{2}, \frac{\pi}{2}]$$

$$500000 f(x) = \ln x - \sin x + ax(a > 0)$$

$$600000 f(x) = e^x - ax(a \in R)_0$$

0100000 ^{f(x)}00000

$$200 a = 200000 g(x) = f(x) - \cos x_0 \left(-\frac{\pi}{2} + \infty \right) = 0000000$$

800000
$$f(x) = \tan x \cdot \sin x_{\square} g(x) = x \cdot \sin x_{\square} \xrightarrow{x \in (0, \frac{\pi}{2})}$$

$$200 \xrightarrow{X \in (0,\frac{\pi}{2})} 00 \xrightarrow{f(x)...ag(x)} 0000 \xrightarrow{a} 00000$$

$$9_{00000} f(x) = \ln x + ax + \sin x_{000} x \in (0_0 \pi)_0$$

$$0100 a = 000000 y = f(x) 00 (\frac{\pi}{2} 0 f(\frac{\pi}{2}))$$

0300000
$$f(x)$$
 0 $[\frac{\pi}{2}$ 0 $\pi]$ 0000000

$$\begin{array}{ll} \text{ to } & X \in \left[\frac{\pi}{2}, \pi\right] \\ \text{ to } & Y = f(x) \\ \text{ to } & X \in \left[0 \\ 2\pi\right] \\ \text{ to } & Y = f(x) \\ \text{ to } & 0 \\ \text{ to$$

$$1100000 \ f(x) = (1 - a - x) \sin x - (1 + a + x) \cos x - x \in [0_{\square} \pi]_{\square} \ a \in R_{\square}$$



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